

IN THE CLAIMS

Please cancel claims 12, 13, 17, 18, 20 and 21.

Please amend the claims as follows.

1 1. (Currently Amended) An apparatus comprising:
2 at least one processor;
3 a memory coupled to the at least one processor;
4 a plurality of logical partitions defined on the apparatus;
5 an I/O reconfiguration mechanism that reconfigures identified I/O; and
6 a logical partition suspend/resume mechanism that suspends at least one of the
7 plurality of logical partitions before the I/O reconfiguration mechanism reconfigures the
8 identified I/O by inhibiting dispatch of tasks to the at least one logical partition and
9 waiting until all pending tasks in the at least one logical partition are complete, and that
10 resumes all suspended logical partitions after the I/O reconfiguration mechanism
11 reconfigures the identified I/O by enabling dispatch of tasks to the at least one logical
12 partition.

1 2. (Original) The apparatus of claim 1 wherein the logical partition suspend/resume
2 mechanism suspends all of the plurality of logical partitions.

1 3. (Original) The apparatus of claim 1 wherein the logical partition suspend/resume
2 mechanism suspends only the logical partitions that own the identified I/O.

1 4. (Currently Amended) An apparatus comprising:
2 at least one processor;
3 a memory coupled to the at least one processor;
4 a plurality of logical partitions defined on the apparatus; and
5 a partition manager residing in the memory and executed by the at least one
6 processor, the partition manager performing the steps of:
7 (1) detecting when identified I/O requires reconfiguration;
8 (2) suspending at least one of the plurality of logical partitions by
9 inhibiting dispatch of tasks to the at least one logical partition and waiting until all
10 pending tasks in the at least one logical partition are complete;
11 (3) reconfiguring the identified I/O; and
12 (4) resuming all logical partitions suspended in step (2) by enabling
13 dispatch of tasks to all logical partitions suspended in step (2).

1 5. (Currently Amended) An apparatus comprising:
2 at least one processor;
3 a memory coupled to the at least one processor;
4 a plurality of logical partitions defined on the apparatus;
5 a partition manager residing in the memory and executed by the at least one
6 processor, the partition manager performing the steps of:
7 (1) quiescing identified I/O;
8 (2) suspending at least one of the plurality of logical partitions that owns at
9 least a portion of the identified I/O by inhibiting dispatch of tasks to the at least
10 one logical partition and waiting until all pending tasks in the at least one logical
11 partition are complete;
12 (3) reconfiguring the identified I/O;
13 (4) enabling the reconfigured identified I/O; and
14 (5) resuming all logical partitions suspended in step (2) by enabling
15 dispatch of tasks to all logical partitions suspended in step (2).

1 6. (Currently Amended) A computer-implemented method for reconfiguring identified
2 I/O in a computer system that includes a plurality of logical partitions, the method
3 comprising the steps of:

4 (1) suspending at least one of the plurality of logical partitions by inhibiting
5 dispatch of tasks to the at least one logical partition and waiting until all pending tasks in
6 the at least one logical partition are complete;

7 (2) reconfiguring the identified I/O; and

8 (3) resuming all logical partitions suspended in step (1) by enabling dispatch of
9 tasks to all logical partitions suspended in step (1).

1 7. (Original) The method of claim 6 wherein step (1) comprises the step of suspending
2 all of the plurality of logical partitions.

1 8. (Original) The method of claim 6 wherein step (1) comprises the step of suspending
2 only the logical partitions that own the identified I/O.

1 9. (Currently Amended) A computer-implemented method for reconfiguring identified
2 I/O in a computer system that includes a plurality of logical partitions, the method
3 comprising the steps of:
4 (1) detecting when the identified I/O requires reconfiguration;
5 (2) suspending at least one of the plurality of logical partitions by inhibiting
6 dispatch of tasks to the at least one logical partition and waiting until all pending tasks in
7 the at least one logical partition are complete;
8 (3) reconfiguring the identified I/O; and
9 (4) resuming all logical partitions suspended in step (2) by enabling dispatch of
10 tasks to all logical partitions suspended in step (2).

1 10. (Currently Amended) A computer-implemented method for reconfiguring identified
2 I/O in a computer system that includes a plurality of logical partitions, the method
3 comprising the steps of:
4 (1) quiescing identified I/O;
5 (2) suspending at least one of the plurality of logical partitions that owns at least a
6 portion of the identified I/O by inhibiting dispatch of tasks to the at least one logical
7 partition and waiting until all pending tasks in the at least one logical partition are
8 complete;
9 (3) reconfiguring the identified I/O;
10 (4) enabling the reconfigured identified I/O; and
11 (5) resuming all logical partitions suspended in step (2) by enabling dispatch of
12 tasks to all logical partitions suspended in step (2).

1 11. (Currently Amended) A program product comprising:
2 (A) a logical partition suspend/resume mechanism that suspends at least one of a
3 plurality of logical partitions before identified I/O is reconfigured by inhibiting dispatch
4 of tasks to the at least one logical partition and waiting until all pending tasks in the at
5 least one logical partition are complete, the logical partition suspend/resume mechanism
6 resuming all suspended logical partitions after the identified I/O is reconfigured by
7 enabling dispatch of tasks to the at least one logical partition; and
8 (B) recordable computer readable signal bearing media bearing the logical
9 partition suspend/resume mechanism.

1 12. (Cancelled)

1 13. (Cancelled)

1 14. (Original) The program product of claim 11 wherein the logical partition
2 suspend/resume mechanism suspends all of the plurality of logical partitions.

1 15. (Original) The program product of claim 11 wherein the logical partition
2 suspend/resume mechanism suspends only the logical partitions that own the identified
3 I/O.

1 16. (Currently Amended) A program product comprising:
2 (A) a partition manager that performs the steps of:
3 (1) detecting when identified I/O requires reconfiguration;
4 (2) suspending at least one of a plurality of logical partitions by inhibiting
5 dispatch of tasks to the at least one logical partition and waiting until all pending
6 tasks in the at least one logical partition are complete;
7 (3) reconfiguring the identified I/O; and
8 (4) resuming all logical partitions suspended in step (2) by enabling
9 dispatch of tasks to all logical partitions suspended in step (2); and
10 (B) recordable computer readable signal bearing media bearing the partition
11 manager.

1 17. (Cancelled)

1 18. (Cancelled)

1 19. (Currently Amended) A program product comprising:
2 (A) a partition manager that performs the steps of:
3 (1) quiescing identified I/O;
4 (2) suspending at least one of a plurality of logical partitions that owns at
5 least a portion of the identified I/O by inhibiting dispatch of tasks to the at least
6 one logical partition and waiting until all pending tasks in the at least one logical
7 partition are complete;
8 (3) reconfiguring the identified I/O;
9 (4) enabling the reconfigured identified I/O; and
10 (5) resuming all logical partitions suspended in step (2) by enabling
11 dispatch of tasks to all logical partitions suspended in step (2); and
12 (B) recordable computer readable signal bearing media bearing the partition
13 manager.

1 20. (Cancelled)

1 21. (Cancelled)

STATUS OF THE CLAIMS

Claims 1-21 were originally filed in this patent application. In the pending office action, claims 11-21 were rejected under 35 U.S.C. §101 as being directed to non-statutory subject matter. Claims 1-10, 14 and 15 were rejected under 35 U.S.C. §102(b) as being anticipated by U.S. Patent Application Publication 2002/0112102 to Tarui *et al.* (hereinafter “Tarui”). No claim was allowed. In this amendment, claims 12, 13, 17, 18, 20 and 21 have been cancelled, and claims 1, 4-6, 9-11, 16 and 19 have been amended. Claims 1-11, 14-16 and 19 are currently pending.